SUMMARY

The River Corridor Project consists of the following projects: 300 Area Liquid Effluent Facility (LEF) WBS 1.2.3.2, Project Baseline Summary (PBS) WM05; B-Plant, WBS 1.4.1, PBS TP01; 300 Area/Special Nuclear Materials, WBS 1.4.4, PBS TP04; Transition Project Management, WBS 1.4.6, PBS TP12; Accelerated Deactivation, WBS 1.4.8, PBS TP10; 324/327 Facility Transition, WBS 1.4.10, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11, PBS TP14.

PBS WM05 is divided between WBS 1.2.3.1, Liquid Effluents (200 LEF) and WBS 1.2.3.2, 310 TEDF/340 Facility (300 LEF). The 310 TEDF/340 Facility work scope is now included in the River Corridor Project, whereas the Liquid Effluents (200 LEF) work scope has remained in Waste Management. For the purpose of performance analysis, PBS WM05 is reported in Waste Management, which has the majority of the work scope and funding incorporated in their baseline.

The 300 Area Fuel Supply Shutdown project is on schedule to meet the submittal of the final closure plan due on March 31, 2000. Washington State Department of Ecology (Ecology) approved the changes to the Phase 3 Decontamination Inspection Plan (DIP) and Phase 3 closure field activities associated with the 300 Area Waste Acid Treatment System (WATS) Closure plan.

The Accelerated Deactivation project is making progress towards the planning for the disposition of approximately 1,865 metric tons (MT) of Hanford Unirradiated Uranium. Activities completed to date include the issuance of the Environmental Analysis (EA) for public comment while the Safety Analysis Report for Packaging (SARP) for billet shipment is pending approval by the Department of Energy, Headquarters (DOE-HQ). A white paper on the selection of carbon steel pipe packaging system for 0.95 and 1.25 enriched fuel was also completed. Additionally, a Uranium Disposition Alternatives workshop is scheduled for mid January. Other project progress includes the approval of the 231-Z Safety Analysis and documentation for characterization, allowing characterization work to begin at the 231-Z facility.

The National Facility Deactivation Initiative (NFDI) team has been actively participating in several multi-DOE site/contractor activities. They assisted in the development of a Memorandum of Understanding (MOU) between DOE-HQ, DOE Richland (RL) and DOE Savannah River (SR) and contractors Westinghouse Savannah River and Fluor Hanford for the deactivation planning at F Canyon, FB Line and associated facilities at SR. A resource loaded schedule for development of the Work Unit Library, field walk-downs and an estimate for approximately forty facilities at Idaho National Engineering and Environmental Laboratory (INEEL) were also prepared. In addition, survey reports on five pipeline facilities at the Oak Ridge, Tennessee site were completed along with the data consolidation in support of upcoming engineering study per Kaiser-Hill's request. The data from the study will be used to compare the Rocky Flats Environmental Technology site (RFETS) needs with the Centralized Automated Modular Mobile (CAMM) solutions.

The 324 B Cell cleanout effort continues to experience delays as a result of systems and equipment failures. The project remains behind schedule in supporting TPA milestone, M-89-02, *Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B Cell Mixed Waste (MW) and Equipment*, due November 30, 2000. Extensive effort by the facility is focused on crane repairs. One of

two crane repairs was completed. Parallel path opportunities and alternate work is being defined and pursued. In addition, a recovery plan and schedule have been developed and will be documented in HNF-IP-1289, *324/327 Buildings Stabilization/Deactivation Project Management Plan (PMP), Rev. 3,* which will be completed in early January. Implementation of the revised PMP will occur upon approval of the baseline change request (BCR) FSP-2000-013 expected in late January or early February.

Progress has been made in selecting a vendor to provide a robotic arm that will be used in performance of deactivation work in a high radiation environment. Specifically, the robotic arm will be used to complete B Cell characterization work in FY 2001. The Accelerated Site Technology Deployment (ASTD) B Cell robotics contract award is expected in February.

Progress on the acceleration of deactivation at the 327 Facility includes the transfer of eight additional specimen containers from dry storage. To date twenty-nine specimen containers out of 272 planned have been transferred. Consolidation of approximately seventy-five grams of fissile samples from Hot Cells A through I into shielded drums for disposal was also completed. There are approximately 432 grams of fissile samples that require disposition. Other progress includes packaging 26 legacy waste buckets into shielded drums, completing the packaging of 13.9 cubic meters (m^3) of bulk waste into boxes including the Non Destructive Analysis (NDA) and completion of the NDA for 12.4 m^3 of bulk waste packaged in FY 1999.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that one of three milestones (33 percent) was completed on or ahead of schedule and 2 milestones (67 percent) are overdue. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

ACCOMPLISHMENTS

- Completed transfer of eight additional specimen containers from the 327 Facility dry storage; 29 transfers out of 272 planned completed to date.
- Completed consolidation of ~75 grams of fissile samples from 327 Facility Hot Cells A through I into shielded drums for disposal; ~ 432 grams in inventory planned for disposition in FY 2000.
- Completed packaging of 26 legacy waste into shielded drums at the 327 Facility.
- Completed packaging 13.9 m^3 bulk waste from 327 Facility into waste boxes including NDA.
- Completed NDA for 12.4 m^3 bulk waste from 327 Facility packaged in FY 1999.
- Issued the Uranium Disposition Environmental Analysis for public comment.
- Completed white paper on carbon steel pipe packaging system for 0.95 & 1.25 enriched fuel.
- Approved the 231-Z Safety Analysis & Documentation for characterization.

COST PERFORMANCE ($M):

	BCWP	ACWP	VARIANCE
River Corridor Project	$11.4	$11.3	+ $0.1

The $0.1 million (0.9 percent) favorable cost variance is within the established threshold. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE ($M):

	BCWP	BCWS	VARIANCE
River Corridor Project	$11.4	$12.9	- $1.5

The $1.5 million (11.6 percent) unfavorable schedule variance is primarily due to delays with B Cell clean out activities including waste shipments and estimate update activities. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

ISSUES

Downtime driven by facility systems/equipment failures continues to create delays in the 324 Facility project schedules. The ongoing crane and facility system failures have placed the project significantly behind schedule.

> **Strategy/Status:** Extensive effort is being focused on crane repairs and their availability. In parallel opportunities to optimize the project sequencing, alternate work arounds are being defined and pursued. Recovery of schedule is expected through the implementation of the updated Project Management Plan (PMP), shift work, and an accelerated shipping schedule (all of these activities will be a part of the plan.

The 324 Building Fire Hazards Analysis (FHA) revision supporting the 324 Building Safety Analysis Report (SAR) update resulted in lower combustible load limits. There is a potential adverse cost impact to work progress at the 324 Building.

> **Strategy/Status:** An implementation plan that allows work to continue and maintain allowable combustible load limits has been developed. Alternative fire suppression capabilities to allow increase in combustible load limits are also being evaluated.

Waste Sampling and Characterization Facility (WSCF) metals analysis deviated from EPA Method 200.8. This resulted in being in a non-compliance state with the National Pollutant Discharge Elimination System Permit.

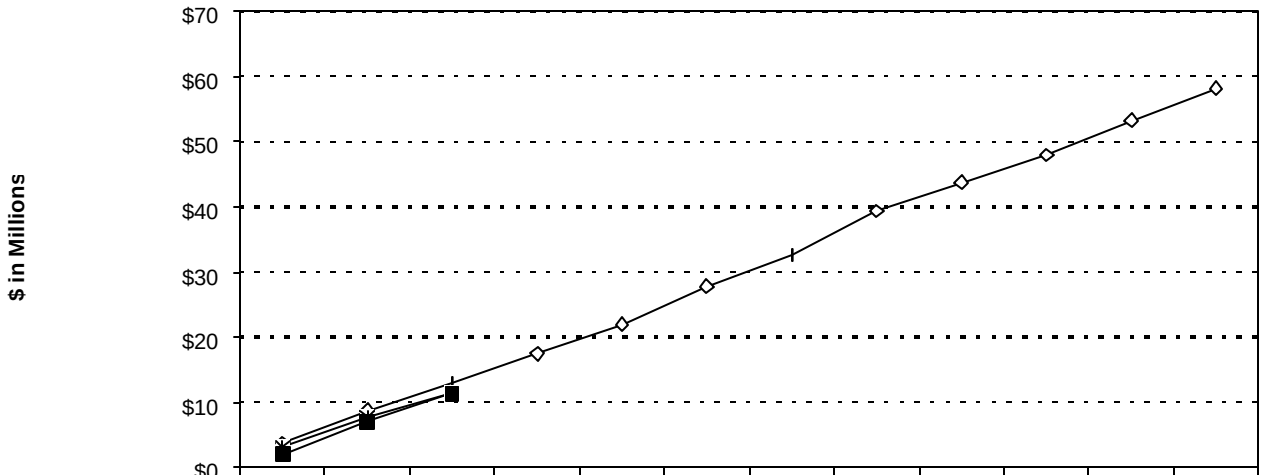
> **Strategy/Status:** Analysis of archived samples was repeated with no bias. No further actions are required. **This is the last month this issue will be reported**

RIVER CORRIDOR

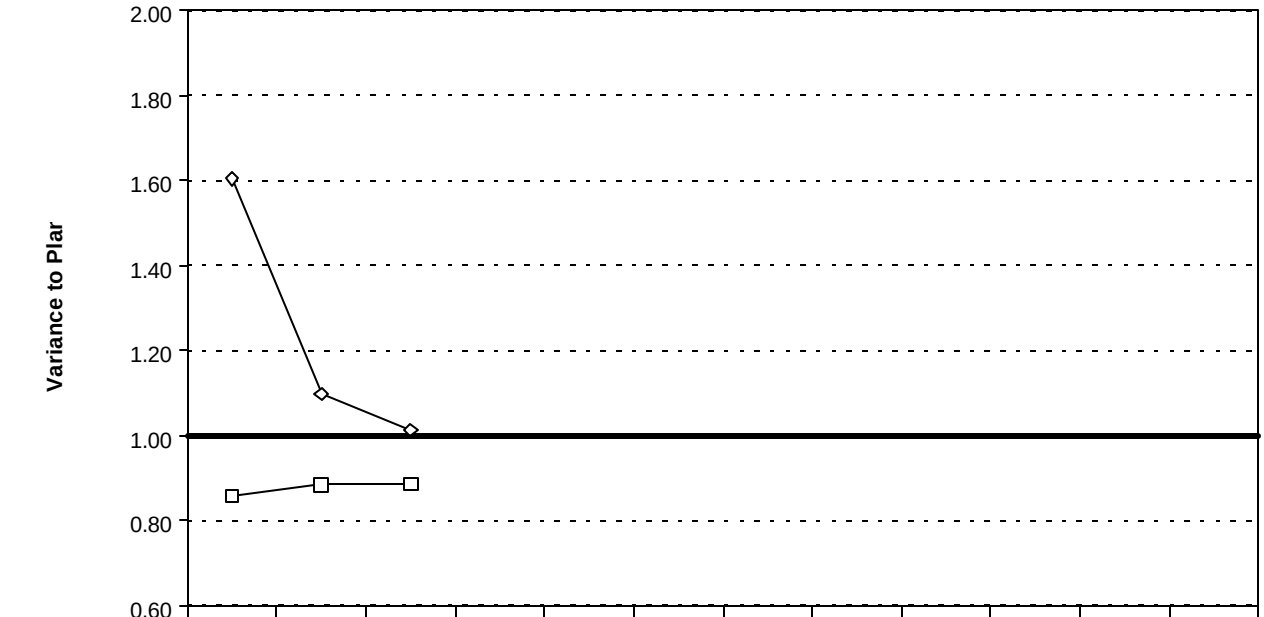
WBS 1.4.1, 1.4.4, 1.4.6, 1.4.8, 1.4.10, 1.4.11

FY 2000 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES

Cumulative to Date Status



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYSF												
PTS BCWS	3.7	8.8	12.9	17.4	22.0	27.8	32.6	39.4	43.7	48.0	53.3	58.2
BCWP	3.1	7.8	11.4									
ACWP	2.0	7.1	11.3									
SV	(0.5)	(1.0)	(1.5)									
CV	1.2	0.7	0.1									



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SPI	0.86	0.88	0.89									
CPI	1.60	1.10	1.01									

RIVER CORRIDOR
WBS 1.4.1, 1.4.4, 1.4.6, 1.4.8, 1.4.10, 1.4.11

			FYTD					AUTH	PTS
			~~BCWS~~	~~BCWP~~	~~ACWP~~	~~SV~~	~~CV~~	~~BSLN~~	~~BCWS~~
1.4.1.1 TP01	B-Plant	Expense	0.0	0.0	0.1	0.0	(0.1)	0.0	0.0
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~(0.0)~~	~~0.0~~	~~0.0~~
	Subtotal 1.4.1.1		0.0	0.0	0.1	0.0	(0.1)	0.0	0.0
1.4.4.1 TP04	300 Area/SNM	Expense	0.6	0.6	0.7	(0.0)	(0.0)	2.7	2.7
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~
	Subtotal 1.4.4.1		0.6	0.6	0.7	(0.0)	(0.0)	2.7	2.7
1.4.6.1 TP12	Transition Project Mgmt	Expense	4.4	4.4	3.2	(0.0)	1.2	18.8	19.4
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~
	Subtotal 1.4.6.1		4.4	4.4	3.2	(0.0)	1.2	18.8	19.4
1.4.8.1 TP10	Accelerated Deactivation	Expense	0.6	0.7	0.5	0.1	0.2	2.5	2.5
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~
	Subtotal 1.4.8.1		0.6	0.7	0.5	0.1	0.2	2.5	2.5
1.4.10.1 TP08	324/327 Facility Transition	Expense	7.1	5.6	6.8	(1.5)	(1.2)	32.4	32.9
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.4.10.1		7.1	5.6	6.8	(1.5)	(1.2)	32.4	32.9
1.4.11.1 TP14	HSFP 300 Area Revitalization	Expense	0.2	0.1	0.1	(0.0)	0.0	0.8	0.8
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.4.11.1		0.2	0.1	0.1	(0.0)	0.0	0.8	0.8
RIVER CORRIDOR TOTAL		Expense	12.9	11.4	11.3	(1.5)	0.2	57.2	58.2
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	(0.0)	0.0	0.0
	River Corridor Total		12.9	11.4	11.3	(1.5)	0.1	57.2	58.2

COST VARIANCE ANALYSIS: (+$0.1)

WBS/PBS **Title**

1.4.1/TP01 **B Plant**
Description and Cause: The unfavorable cost variance is primarily due to unplanned costs associated with the ventilation filter change outs and ductwork repairs.
Impact: Deprives other projects of funding for current year priorities including accelerated deactivation activities.
Corrective Action: Work scope is being performed via an approved Advanced Work Authorization (AWA) while BCR FSP-00-008, which funds the B Plant action items is in process.

1.4.4/TP04 **300 Area / Special Nuclear Materials**
Description and Cause: The unfavorable cost variance is primarily due to higher than planned costs related to the Resource Conservation and Recovery Act of 1976 (RCRA) Waste Acid Treatment System (WATS) activities.
Impact: The impact is currently being evaluated.
Corrective Action: A detailed spend forecast is being developed to determine corrective action plan.

1.4.10/TP08 **324/327 Building Deactivation**
Description and Cause: The unfavorable cost variance is primarily due to carryover work scope being performed via an AWA, higher than planned B Cell crane repairs, and performing unfunded accelerated 327 Building deactivation work scope also via AWA.
Impact: None. Spending against AWAs is being closely monitored.
Corrective Action: Costs of work being performed via AWA will be measured against baseline performance once the applicable baseline change requests are approved. This is particularly applicable to the effort associated with the 327 accelerated deactivation work scope.

1.4.8/TP10 **Accelerated Deactivation**
Description and Cause: The favorable cost variance is primarily due to a P3™ schedule activity status error resulting in overstated BCWP. The true cost variance is a favorable $80K which is primarily the result of lower than planned labor support to 231-Z.
Impact: No impact.
Corrective Action: P3 will be corrected in January to reflect the correct BCWP.

1.4.6/TP12 **Transition Project Management**
Description and Cause: The favorable cost variance is primarily due to the PHMC re-structuring which has mapped personnel to other sub-projects, resulting in underruns in labor and contractor support. Other sub-projects are experiencing unfavorable cost variances due to the influx of unplanned personnel from PBS TP 12.
Impact: Not determined. Underruns have been utilized to fund other high priority project and FY 1999 carryover work scope.

COST VARIANCE ANALYSIS: (+$0.1)

WBS/PBS **Title**

Corrective Action: Re-planning of this account is underway to reflect the new structure, including the transfer of funds to other PHMC sub-projects where former Facility Stabilization personnel have been mapped.

1.4.11/TP14 HSFP 300 Area Revitalization
Description and Cause: The favorable cost variance is primarily due to less than planned costs in Min Safe surveillance and corrective maintenance activities.
Impact: None.
Corrective Action: Funds made available via underruns will be utilized toward achievement of accelerated deactivation activities.

SCHEDULE VARIANCE ANALYSIS: (-$1.5)

WBS/PBS **Title**

1.4.10/TP08 324/327 Building Deactivation
Description and Cause: The unfavorable schedule variance includes limited progress in the B Cell clean out or waste shipments due to non availability of cell support systems. Additionally, B Cell carryover work scope is being performed via an AWA, which is not reflected in the baseline. Also included in the variance is the PUREX Tunnels work scope, which is not being performed, as this activity is no longer required.
Impact: The continued behind schedule condition jeopardizes achievement of schedule recovery.
Corrective Action: Maximum effort is being expended to repair cranes and other cell support systems. The PMP revision, which should be completed in early January, includes a re-sequence of critical path activities that will provide recovery of TPA milestone schedule.

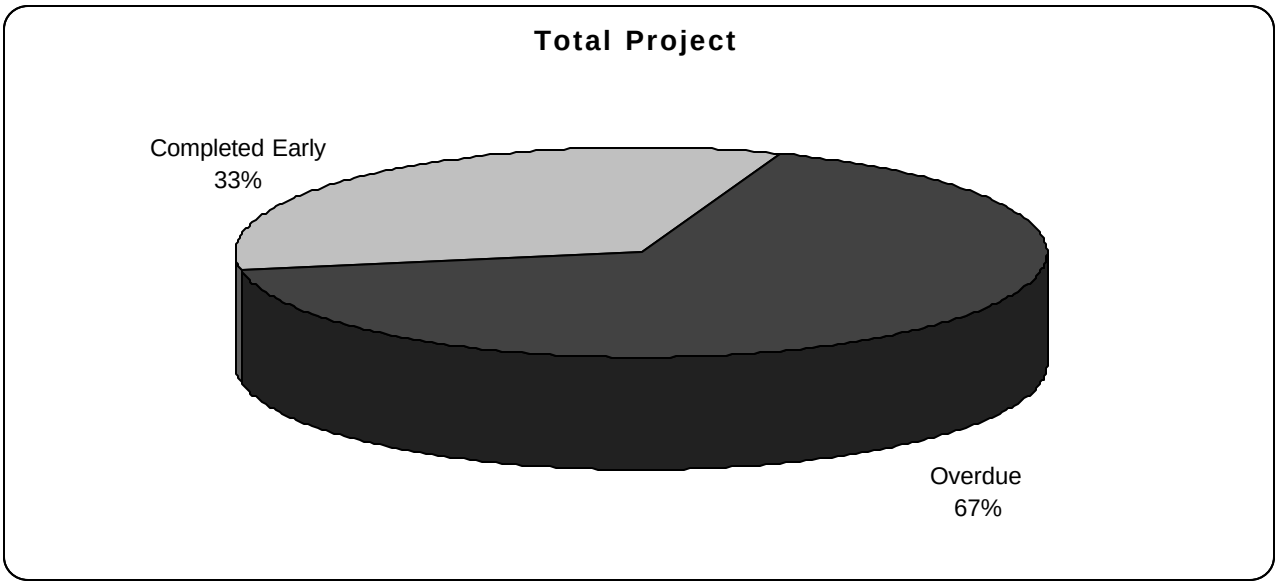
1.4.8/TP10 Accelerated Deactivation
Description and Cause: The favorable schedule variance is due to a P3 status error resulting in overstated BCWP. The true schedule variance is an unfavorable $24K, which is within the established threshold.
Impact: None
Corrective Action: P3 will be corrected in January to reflect the correct BCWP.

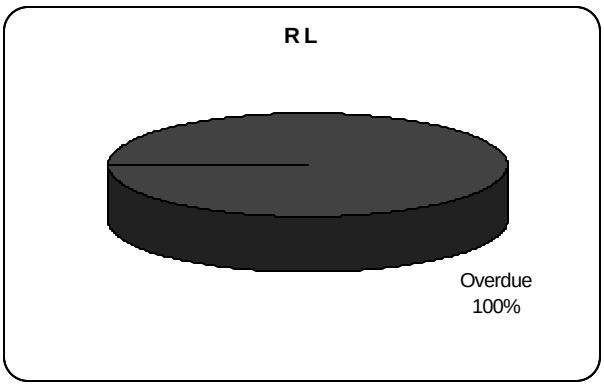
1.4.11/TP14 HSFP 300 Area Revitalization
Description and Cause: The unfavorable schedule variance is due to delays in performing the baseline estimate update activities. Changes in organization associated with the PHMC re-structuring have caused the delay as a result of personnel performing other planned work either within sub-project or other areas.
Impact: Will not complete the estimate update in first quarter as planned.
Corrective Action: Continue activities and provide notifications that estimate update will be completed in second quarter.

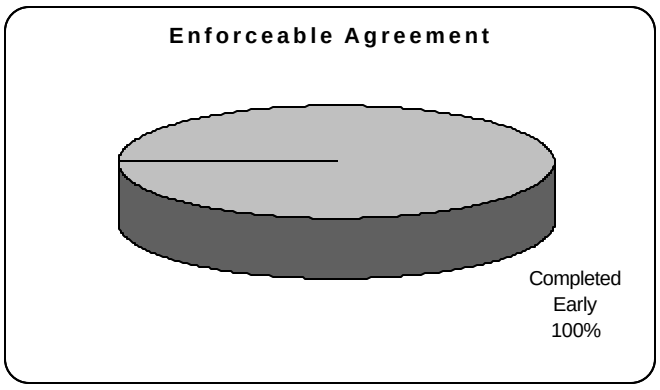
All other PBS variances are within established thresholds.

RIVER CORRIDOR
MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	1	0	0	0	0	0	0	1
DOE-HQ	0	0	0	0	0	0	0	0
FO	0	0	0	0	0	0	0	0
RL	0	0	0	2	0	1	7	10
Total Project	1	0	0	2	0	1	7	11







MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date

OVERDUE – 2

TRP-98-936 1.4.10	**RL**	Complete 2A Rack Size Reduction and Removal	10/23/99	04/30/00

Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.
Impact: Currently six months behind schedule to support TPA milestone M-89-02 due November 2000.
Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities that will provide recovery to the schedule. Implementation of the revised PMP will occur upon approval of BCR FSP-00-013.

TRP-99-933 1.4.10	**RL**	Complete Containerization of Dispersible under 2A Rack	11/06/99	04/30/00

Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.
Impact: Currently six months behind schedule to support TPA milestone M-89-02 due November 2000.
Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone and mitigating schedule impact to M-89-02. Implementation of the revised PMP will occur upon approval of BCR FSP-00-013.

FORECAST LATE – 7

TRP-99-907 1.4.10	**RL**	Complete 1A Rack 382-B Cask Shipments	01/01/00	05/30/00

Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.
Impact: Currently four months behind schedule to support TPA milestone M-89-02 due November 2000.
Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone and mitigating schedule impact to M-89-02. Implementation of the revised PMP will occur upon approval of BCR FSP-00-013.

MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date
TRP-99-910 1.4.10	**RL**	Complete transfer of SNF from B Cell	01/11/00	Proposed Deletion

Cause: The decreased availability of the facility cranes and delay in grout container characterization activities resulted in work scope delays.
Impact: Minimal impact. Not on TPA M-89-02 critical path.
Corrective Action: This milestone will be deleted upon the completion and implementation of the revised PMP. Implementation of the revised PMP will occur upon approval of BCR FSP-00-013.

TRP-99-945 1.4.10	**RL**	Complete shipment of one RH-TRU Grout Container	01/13/00	Proposed Deletion

Cause: The decreased availability of the facility cranes and delay in grout container characterization activities resulted in work scope delays.
Impact: Minimal/None.
Corrective Action: This milestone will be deleted upon completion and implementation of the revised PMP, which re-sequences B Cell clean out activities. Implementation of the revised PMP will occur upon approval of BCR FSP-00-013

TRP-99-909 1.4.10	**RL**	Complete 2A Rack 382-B Cask Shipments	03/29/00	02/28/01

Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.
Impact: Currently eleven months behind schedule; however, delay does not affect TPA milestone M-89-02, due November 2000.
Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone and mitigating schedule impact to M-89-02. Implementation of the revised PMP will occur upon approval of BCR FSP-00-013.

TRP-00-914 1.4.10	**RL**	PUREX Tunnels Ready to Receive B Cell MW/SCW	04/20/00	Proposed Deletion

Cause: Revision to the Special Case Waste Study, completed in September 1999, determined waste shipments to Central Waste Complex (CWC) was a better option than the Purex tunnels.
Impact: No impact. Work no longer planned for tunnel disposition.
Corrective Action: This milestone will be deleted upon completion and implementation of the revised PMP, which re-sequences B Cell clean out activities and eliminates use of PUREX tunnels for storage of special-case waste (SCW). Implementation of the revised PMP will occur upon approval of BCR FSP-00-013.

MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date
TRP-00-915 1.4.10	**RL**	Complete the 324 LWHS Design & Construction	06/30/00	09/30/03

Cause: Delays in design approval driven by need for additional characterization of the physical, installed transfer systems that will interface with LWHS.
Impact: Currently thirty-nine months behind schedule; however delay does not affect TPA milestone M-89-02 due November 2000.
Corrective Action: This activity will be performed in a different sequence than currently planned in support of final deactivation. The milestone date will be revised upon implementation of the revised PMP, which will occur upon approval of BCR FSP-00-013.

TRP-00-931 1.4.10	**RL**	Complete SCW Shipments to Storage	09/29/00	11/30/00

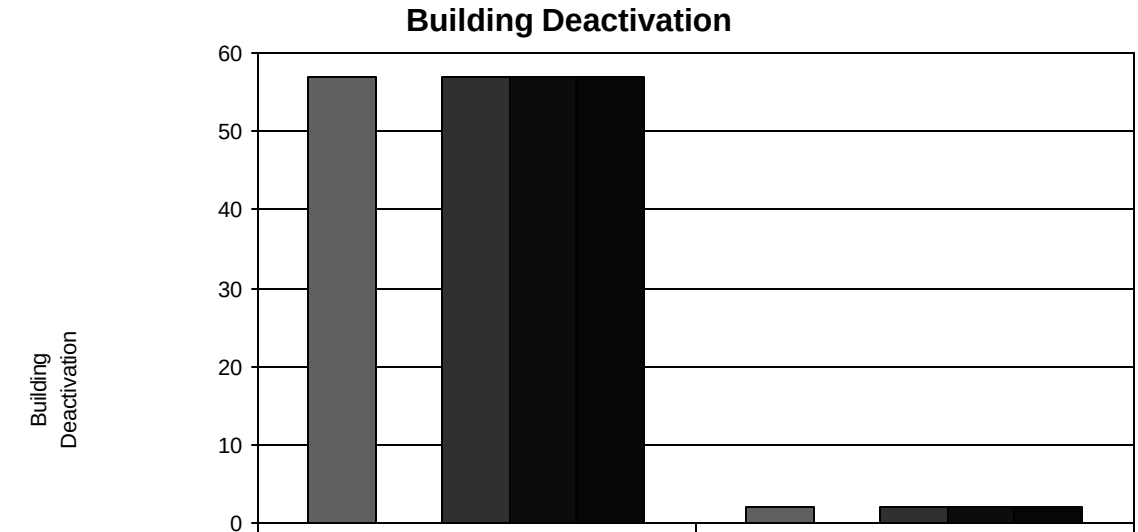
Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules. Cranes are required to package, characterize and move waste containers.
Impact: Currently two months behind schedule to support TPA milestone M-89-02 due November 2000.
Corrective Action: Increased emphasis has been placed on improving systems availability. The milestone date will be revised upon implementation of the revised PMP, which will occur upon approval of BCR FSP-00-013.

FY 1999 OVERDUE – 1

TRP-99-937 1.4.10	**RL**	Remove, Package & Ship Excess Equipment from B Cell	09/30/99	Proposed Deletion

Cause: The work scope related to this milestone was included in the 324 B Cell Cleanout work scope reconfiguration per approved BCR FSP-99-017. The milestone should have been deleted with the approval of FSP-99-017 but was overlooked.
Impact: None. This milestone is obsolete.
Corrective Action: This milestone will be deleted upon implementation of the revised PMP, which will occur upon approval of BCR FSP-00-013.

Building Deactivation



	Bldg. Not Yet Deactivated	Post Deactivation
FY00 MYWP	57	2
EM Mgmt Commitm't		
FY00 Current Baseline	57	2
FYTD Planned	57	2
FYTD Actual	57	2

Buildings Not Yet Deactivated: The current baseline does not fund building deactivation in FY 2000.

Post Deactivation: These two buildings, deactivated in FY 1996, are in post-deactivation surveillance until formal turnover to the ERC, when the 300 Area Fuel Supply Shutdown project is completed in FY 2001.